

The **SCI 141** Interconnect Assembly series incorporates Conformable™ cable and standard connectors providing an alternative to semi-rigid cable assemblies to 18 GHz. These assemblies feature a copper foil tape and tin filled composite cable jacket. The assemblies have standard connectors designed to meet MIL-C-39012, MIL-STD-348a or applicable industry specs, with styles including right angles, flange and bulkheads. These cable assemblies are useful where semi-rigid cable would be used, but can be hand formed without the expensive cost of cable design, tooling and drawings.

FEATURES

- Copper tinned composite jacket for hand formability
- Solid PTFE dielectric
- Tight bending radius of .188 inches

CONNECTORS

Any commercially available connectors for semi-rigid .141 cable

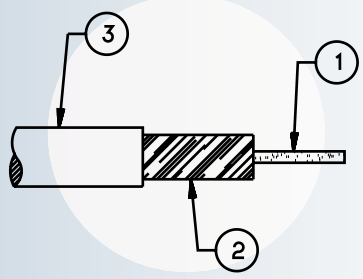
CABLE SIZE

.141 inches, nominal outer diameter; 4 inches to 18 inches, 24 inches standard lengths

APPLICATIONS

Alternative for semi-rigid assemblies

Cable Construction



- 1. Center conductor: Silver plated copper clad steel *
 - 2. Dielectric: Solid PTFE
 - 3. Outer conductor: Copper foil tape and tin-filled composite braid
- * Silver plating per ASTM-B-298

Conformable™ is a registered trademark of Belden Wire & Cable Company

ELECTRICALS

Velocity of Propagation %		69.5
RF Leakage Min. @ 18GHz dB/ft		-85
Impedance	Nominal	50
Capacitance	pF/ft (pF/m)	29 (95.14)

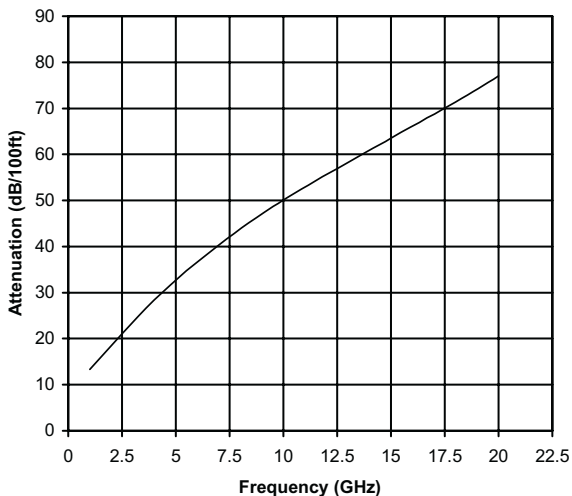
MECHANICAL/ENVIRONMENTAL

Nominal Diameter	inches (cm)	.141 (.351)
Minimum Bend Radius	inches (cm)	.188 (.467)
Minimum Flex Radius	inches (cm)	.500 (.1.270)
Temperature	DEG. C	-70/+200
Weight	lb/100ft (kg/m)	3.4 (.05)

Materials and Finishes (Cable)

Jacket	Tin Filled Braid Composite
Dielectric	TFE Teflon
Center Conductor	Steel, copper clad, silver plated

SC141 CABLE
ATTENUATION vs FREQUENCY

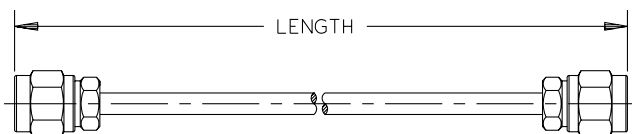


CONNECTOR CODES



CONNECTOR STYLE	MALE
	STR
SMA	21

HOW TO MEASURE LENGTH



Standard lengths of
4 inches to 18 inches,
in one inch increments plus 24 inches

HOW TO SPECIFY PART NUMBER

□□
CONNECTOR ONE

□□
CONNECTOR TWO

SC1141
CABLE

□□□
STANDARD LENGTH (INCHES)

FOR EXAMPLE: SMA STRAIGHT MALE TO SMA STRAIGHT MALE, 36 INCHES LONG.
 NOTE: USE LEADING ZEROS WHEN SPECIFYING LENGTH.

PART NUMBER IS: 21 21 SC1141 036

FOR CONFIGURATION AND LENGTHS NOT LISTED CONTACT SEMFLEX: customer.service@semflex.com